

All COR ISO Recommendations

Latent Condition, Seismic and ISS

Friday, October 12, 2012 11:22:09 AM

| Type | Rec # | ABU | Unit | Year (I/R) | LC or ISS Question # | LC Question ISS Question Seismic Area | Observation | Recommendation | Resolution | Due Date | Assigned To | Status |
|------------------|-------|----------|------------------|------------|----------------------|--|---|---|--|------------|--------------------|-----------|
| Latent Condition | 504 | Cracking | #3 H2S PLANT/SWC | 2008 | 3-5 | Are adequate process vents and drains available? | E-221 does not have a drain on the shell to permit fluid draining for shutdown and opening the shell. (inlet and outlet nozzles are both on the top of the shell) | Add a shell drain on E-221 to eliminate the need to use fresh air when opening E-221 | Shutdown required. E-221 Shell side drain will be added to the S/D worklist 2 drain nozzles and valves were added to this exchanger during the FCC Major Shutdown 2010. | 11/15/2010 | Salomon, Karla J. | Completed |
| Latent Condition | 506 | Cracking | #3 H2S PLANT/SWC | 2008 | 3-13 | Are all equipment labels (e.g., vessels, piping, valves, instrumentation, etc.) easy to read (clear and in good condition)? | Some of the equipment and instrumentation labels and tags in #3H2S and the SWC are faded or missing. | Survey the plant for missing or faded labels and repair or replace as required. - tim and fred | #3H2S and SWC were surveyed and labels added where necessary. | 4/12/2009 | Smith, Richard A. | Completed |
| Latent Condition | 507 | Cracking | #3 H2S PLANT/SWC | 2008 | 4-1 | Are the communications facilities between process units adequate for clear and uninterrupted communications during both normal and emergency situations [e.g., telephone land lines, radio, computer network, and E-mail, and are systems redundant and/or secure? | Radios are the primary means of operator communication. Radios work well but the batteries don't seem to last through a full shift. Phones and e-mail system work well | Motorola radio technician will review the battery management procedure at Cracking to verify that it conforms to an established procedure. Motorola radio tech will survey the batteries in use at Cracking to verify that the batteries and chargers are compatible | Radios and batteries were replaced with new equipment. Asked Operations about the performance and the battery life and they said the radios are working fine. | 4/30/2008 | Tydingco, James D. | Completed |
| ISS | 1527 | Cracking | #3 H2S PLANT/SWC | 2008 | 4A19 | Limit manual operations – like sampling, hose handling, filter cleaning? | Propane and process gas testing is done using Draeger tubes | Process gas and propane stream H2S sampling should be upgraded to in-line analyzers | Current sampling method is consistent with the Refinery practice for this type of process. Will continue to follow current sampling procedure | | Smith, Richard A. | Completed |
| Seismic | 449 | Cracking | #3 H2S PLANT/SWC | 2008 | | T-249, P-249/A | Pumps do not appear to be anchored to their pedestals. There is a wooden wedge/shim under one pump base. | Evaluate seismic loads on P-249/A to determine if anchorage of pumps is needed | P-249s are inline pumps and these pumps are not required to be bolted to a pump base. | 2/12/2009 | Tirona, Martin | Completed |